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Advertising for Bids Outreach required

- ➤ Can't just use the local paper
- Newspapers with significant regional or statewide distribution
- ➤ Internet (Sponsor's website)
- ➤ Contractor agencies / Plan Houses
- Clearly specify date/time of bid opening

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Advertising for Bids

Addenda

- Answers all bidder questions in writing as Addenda publicly issued to all bidders
- May need to issue revised plans or specifications as part of Addenda
- NHDOT approves addenda prior to issuing
- ➤ Bidders need time to respond to Addenda, minimum 5 days
- ➤ May need to extend bid opening date

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Advertising for Bids

Optional Pre-Bid Meeting

- ➤ Public noticed meeting for bidders to view project/ask questions
- Questions during Pre-Bid Meeting answered as written Addenda



Minutes become part of Addenda if answers were given during meeting

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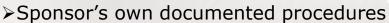
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Step #2 - Bidder Pre-Qualification

Finding responsible bidders

- ➤ The bidding process shall include procedures that ensure the contractor is capable of completing the project
- ≥3 Options:
 - ➤NHDOT's pre-qualified list



- ➤ Bid documents require references
- ➤ NHDOT verifies/approves process

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PRE-QUALIFIED



Bidder Pre-Qualification

Pre-Qualification Basics

- ➤ Cannot restrict competition
- ➤ Cannot give geographical preference
- ➤ Shall review contractor's status relative to debarment/suspension on previous federal-aid projects
- ➤ Shall disqualify bidders who have a conflict of interest with the Sponsor

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Step #3 - Bid Opening

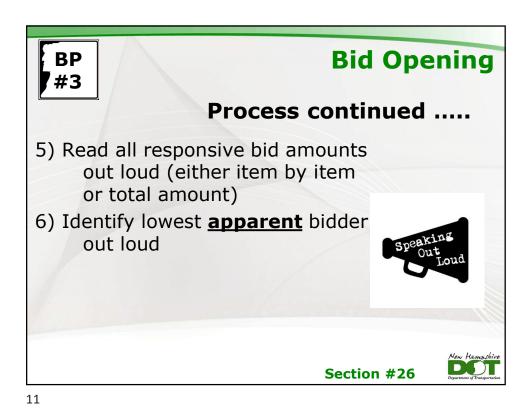
Process



- 1) Log date and time all bids received
- Safely store sealed bids until time of bid opening
- Open in public forum and read bidders names out loud
- 4) Review each bid initially for basic requirements – is bid signed? and are bonds included?

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Step #4 - Bid Analysis
Who does it?

> Sponsor

> Sponsor's attorney if necessary

> Bid Phase Engineer
If low bid is unsatisfactory, then Sponsor may use next lowest bidder ... if NHDOT concurs with Sponsor's justification



Bid Analysis

Does it meet all the requirements?

- Verify contractor is "Responsible" (qualified to perform work)
- Verify bid is "Responsive"
 (filled out correctly)
- ➤ Verify Addenda acknowledged
- Verify bonds, insurance, and certifications are documented per the bid documents

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BP #4

Bid Analysis

Non-Responsive bid examples:

- ➤ Bid without signature
- ➤ Bid bonds not included
- >Unit bid price missing
- ➤ Total bid price missing
- ➤ Bid not prepared in ink
- ➤ Non-collusion affidavit missing
- Conditions, additions or language that makes the bid ambiguous

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BP #4

Bid Analysis

Fatal flaws

- > Answering questions without Addenda
- > Addenda not uniformly issued
- > Zero responsive bids received
- > Zero responsible bidders
- ➤ Bidding prior to NHDOT authorization
- > Awarding bid prior to NHDOT authorization
- Negotiating bid price with contractor

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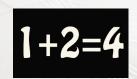
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BP #4

Bid Analysis

Mathematics exercise

- Multiply unit prices x quantities to verify each item's cost
- > Add items for overall contract price
- Check numerical numbers vs. written words (written word governs)



Verify total is still lowest bid

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Bid Analysis

Unit Price analysis

- > Look for large variations
- > Look for unbalanced bids
- Compare <u>All</u> bidders unit prices with Engineer's estimated unit prices

\$50 **\$37** \$97 \$77 \$9.95 \$17 \$ \$67 \$27 \$20 \$ \$10 \$80

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Bid Analysis

Items of Significance

If an individual item cost difference (delta) between an engineer's estimated item and the low bidder (aka "A" bidder) item is large enough, then that item becomes "significant" and shall be further evaluated.

Delta's to determine which bid items are "Significant":

- \$15,000 for Contracts less than or equal to \$2,000,000
- <u>\$25,000</u> for contracts between \$2,000,001 \$5,000,000
- <u>\$50,000</u> for contracts between \$5,000,001 \$10,000,000
- \$75,000 for contracts between \$10,000,001 \$20,000,000
- \$100,000 for contracts greater than \$20,000,001

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Bid Analysis

Items of Significance - Continued

Brief example LPA project:

- > \$1,200,000 = Contract Value, therefore
- > \$15,000 = Significant Item threshold (previous slide)
- ➤ 3 bid items were determined to be significant:

					Α		
					Bidder	Engineer	Sig Items
Item	Item			A Bidder	Item	Item Cost	Delta >
#	Name	Quantity	Unit	Unit Cost	Cost	(PS&E)	\$15K
			Cubic				
304	Gravel	2,500	Yard	\$32/yd	\$80,000	\$50,000	+\$30,000
403	Hot Bit Asphalt	500	Ton	\$60/Ton	\$30,000	\$50,000	- \$20,000
	Drainage						
603	Pipe	400	Feet	\$115/FT	\$46,000	\$20,000	+\$26,000

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BP #4

Bid Analysis

Items of Significance - Continued

For each "significant" item, compare A bidder to engineer <u>and</u> average of other bidders:

			A	В	C		A bidder Delta to
l <u>.</u> .	.	<u> </u>	Bidder	Bidder	Bidder	A Bidder	Avg. of
Item	Item	Engineers		Item	Item	Delta to	other
#	Name	Estimate	Price	Price	Price	PS&E	Bidders
304	Gravel	\$50,000	\$80,000	\$86,000	\$90,000	+\$30,000	-\$8,000
403	Hot Bit Asphalt	\$50,000	\$30,000	\$50,000	\$56,000	-\$20,000	-\$23,000
603	Drainage Pipe	\$20,000	\$45,000	\$24,000	\$26,000	+\$25,000	+20,000

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Bid AnalysisUnit Price analysis

Compare Unit Costs with Similar Projects

Previous Projects	Sidewalk Length	Construction Cost	Cost per Foot
Henniker	3,189 ft	\$452,705	\$142 / FT
Ashland	3,300 ft	\$649,049	\$197 / FT
Durham	923 ft	\$308,769	\$335 / FT
Brookline	5,361 ft	\$599,236	\$112 / FT
Total	12,773 ft	\$2,009,759	Weighted Avg \$157 / FT

How does the current bid unit cost per foot compare to the weighted average unit cost per foot?

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Step #5 -Submit to NHDOT

Prepare recommendation to award letter including:

- ➤ Summary of Bid Process/Advertisement
- ➤ Summary of Bid Analysis
- ➤ Bid Item Tabulation for all bidders including Engineer's estimate



- ➤ Summary of Items of Significance
- > Copy of the low bidders bid form
- Sponsor's letter head request to award to lowest responsible and responsive bidder



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BP #5

Submit to NHDOT

NHDOT reviews:

- ➤ "Request to Award" Letter
- > Advertising Documents
- ➤ Bid Documents
- > Addenda
- ➤ Bid Analysis
- **▶** Bid Tabulation
- ➤ Overall Costs (Bid, CE, Testing) compared to authorized amount





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Submit to NHDOT

Know your limits



- > Low bid cost
- > + Add alternates cost (if applicable)
- > + Construction Engineering (CE) cost
 - ❖Material Testing cost (sub-contractor to CE)
- + Engineer of Record costs during CON Phase

Must be less than PS&E authorized amount

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Submit to NHDOT

If insufficient funds, then NHDOT Project Manager must:

- ➤ Ask NHDOT **Program Manager** if additional funds are available?
- Seek authorization of additional funds from FHWA (if available)
- Seek assurance from the Sponsor that any matching funds necessary will be available for the increase

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Submit to NHDOT

If NHDOT concurs with Bid Analysis and Request to Award:

- NHDOT issues a written notice of approval to award low bid construction contract
- Construction (CON) phase begins the date of this NHDOT letter
- ▶ PE is over no more PE charges can be incurred! (they can be reimbursed after, but not incurred)
- ➤ Engineer of Record tasks still occur during the Construction Phase under a separate scope of work (Pre-Con, answer questions, Form 4 analysis, etc...)

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